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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 7590 05/12/2010
REINHART BOERNER VAN DEUREN P.C. 2215 PERRYGREN WAY
ROCKFORD. II. 61 107

EXAMINER

MATTHEWS, TERRELL HOWARD

ART UNIT PAPER NUMBER

3653

DATE MAILED: 05/12/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,236	07/17/2006	Xavier Prignon	505621	1824	
TITLE OF INVENTION: CLASSIFIER FOR GRANULAR MATERIAL					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	of transmitting the 1336 ig the Patent, advance of herwise in Block 1, by (a	rders and notification of a a) specifying a new corre	naintenance fees wi spondence address;	Il be mailed to the and/or (b) indication	current cong a separa	orrespondence address as ite "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	Not Fee pap haw	e: A certificate of n (s) Transmittal. This ers. Each additional e its own certificate of	nailing can only be certificate cannot paper, such as an of mailing or transr	used for be used for assignment nission.	domestic mailings of the any other accompanying or formal drawing, must
REINHART B 2215 PERRYGE ROCKFORD, II			I be	Certi	ficate of Mailing	or Transm	ission deposited with the United class mail in an envelope bove, or being facsimile e indicated below.
							(Depositor's name)
			<u> </u>				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	. [.	ATTORNEY DOCK	ET NO.	CONFIRMATION NO.
10/586,236 TITLE OF INVENTION	07/17/2006 : CLASSIFIER FOR GR	ANULAR MATERIAL	Xavier Prignon		505621		1824
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nonprovisional	NO	\$1510	\$300	\$0	\$18	10	08/12/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1			
MATTHEWS, TEL	RRELL HOWARD	3653	209-710000	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form and. Use of a Customer A TO BE PRINTED ON	(f) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or 2 registered patent attor listed, no name will be ITHE PATTENT (print or try data will appear on the p T a substitute for filing an (B) RESIDENCE: (CTT)	wely, e firm (having as a magent) and the names rneys or agents. If no printed. pe) atent. If an assigned assignment.	member a 2s of up to o name is 3	w, the doc	ument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🚨 Cor	poration or other p	rivate grou	pentity Government
4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p		o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attached.		
- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	ered attorney or ag	ent; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of inform an application. Confiden submitting the complete this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or in 1.14. This collection is established depending upon the indiversity of the complex of the compl	retain a benefit by the timated to take 12 m vidual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public which is to inutes to complete, ments on the amo rademark Office, U SEND TO: Comm	file (and be including unt of time J.S. Depart issioner fo	by the USPTO to process) gathering, preparing, and you require to complete ment of Commerce, P.O. r Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,236	07/17/2006	Xavier Prignon	505621	1824
53609	590 05/12/2010		EXAM	IINER
REINHART BO	ERNER VAN DEUF	MATTHEWS, TERRELL HOWARD		
2215 PERRYGREEN WAY			ART UNIT	PAPER NUMBER
ROCKFORD, IL 61107			3653	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/586,236	PRIGNON, XAVIER
Examiner	Art Unit
TEDDELL II MATTHEWIC	2652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 2/03/2010.
- The allowed claim(s) is/are 1-14 and 16-222.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)

of Biological Material

- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ___

Application/Control Number: 10/586,236

Art Unit: 3653

DETAILED ACTION

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claim 1 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: (1) a dynamic air classifier for separation of granular and powdery materials into fractions of different grain sizes comprising: a rotary cage adapted to create a vortex when subjected to air flow, the rotary cage classifying the materials into fine particles and coarse particles, a recovery chamber, the recovery chamber being defined by a casing, wherein the recovery chamber receives the fine particles mixed with air from the rotary cage; said recovery chamber coaxially arranged in a protrusion of the rotary age, the recovery chamber using the vortex created by the rotary cage for cycloning the fine particles mixed with air and separating the fine particles from the air; and the recovery chamber including a fine particles outlet and an air outlet, wherein the fine particles separated from air exit through the fine particles outlet and dedusted air exits through an air outlet.

Claim 20 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: (1) a dynamic air classifier comprising: a material inlet receiving materials including coarse particles and fine particles; a rotary cage including a vortex creating Application/Control Number: 10/586,236

Art Unit: 3653

apparatus to generate a vortex, the rotary cage including a classifier classifying the coarse particles from the fine particles; a coarse particle outlet allowing collection from the rotary cage; a recovery chamber vertically arranged under the rotary cage, the recovery chamber receiving the classified fine particles mixed with air; wherein the recovery chamber includes at least one deflector and uses the vortex created by the rotary cage to cyclone and separate fine particles from air; wherein the recovery chamber includes a fine particle outlet and an air outlet, the fine particle outlet coaxially arranged with the air outlet, wherein the fine particle outlet circumscribes the outer periphery of the air outlet, wherein the fine particles separated from air is recovered through the fine particle outlet and a dedusted air exit through the air outlet.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TERRELL H. MATTHEWS whose telephone number is (571)272-5929. The examiner can normally be reached on M-F 8am - 4:30pm.

Art Unit: 3653

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gene Crawford/ Supervisory Patent Examiner, Art Unit 3651

/Terrell H Matthews/ Examiner, Art Unit 3653